

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DATE: 11/13/03

DOCKET NO.: CE11431JLO

APPLICANT: Fouad C. Freiha

ART UNIT:

SERIAL NO.:

EXAMINER:

FILING DATE::

ENTITLED: METHOD AND APPARATUS FOR MOBILE RADIO VELOCITY ESTIMATION

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. §§ 1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are being submitted herewith for consideration by the United States Patent and Trademark Office.

I. COPIES

- a. ☒ A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.
- b. ☐ Any patents, publications or other information which are listed on Form PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial NumberU.S. Filing DateII. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

- a. ☒ Except as may be indicated below in (b) of this section, all of the patents, publications or other information are in the English language (concise explanation not required).
- b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
- c. ☐ The following additional information is provided for the Examiner's consideration:

III. ☐ CROSS REFERENCE TO RELATED APPLICATION(S)

The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this (these) applications to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

U.S. Serial No.U.S. Filing DateArt Unit

FEESIV. ☒ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(b): (check one box)

- a. ☒ within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.
- c. ☐ before the mailing date of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required.
- d. ☐ In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) provided below, or if no statement has been made, charge deposit account 50-2117 the fee set forth in 37 C.F.R. § 1.17(p).

V. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)

before the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)), or a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)).

- a. ☐ No statement; therefore, charge deposit account 50-2117 the fee set forth in 37 C.F.R. § 1.17(p).
- b. ☐ See the statement below. No fee is required.

VI. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):

on or before payment of the issue fee and is accompanied by the following:

- 1) a statement under 37 C.F.R. § 1.97(e) as provided below;
- 2) Applicant(s) hereby a petition for consideration of this information disclosure statement; and
- 3) charge deposit account 50-2117 the petition fee set forth in § 1.17(i).

VII. Statement under 37 C.F.R. §1.97(e) (check only one box, if applicable)

The undersigned hereby states that:

- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office is a counterpart foreign application not more than three months prior to the filing of IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and to knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement, or
- c. ☐ some of the items of information contained in the IDS were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information

contained in the IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

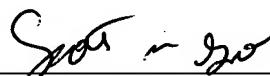
VIII. PAYMENT OF FEES (check one box)

- ☐ A check in the amount of \$_____ is enclosed for the above-identified fee(s).
- ☐ Please charge Deposit Account No. **50-2117** in the amount of \$180.00 for the above-indicated fee(s).
- ☒ If Applicant has overlooked any additional fees, or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account **50-2117**.
- ☐ Two Copies of this paper are attached for Deposit Account charges and debits.

The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person or ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. **50-2117**.

Respectfully submitted,



Scott M. Garrett
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 Facsimile: 954-723-5599

Motorola, Inc.
Customer No. 24273

Enclosures: ☒ PTO/SB/08
☒ References
☐ Foreign Search Report
☐ Other:



Please type a plus sign (+) inside this box.

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
				Filing Date	
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
Sheet	1	of		Attorney Docket No.	CE11431JLO

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s), publisher, city and/or country where published.	T ²
		Mark D. Austin, Gordon L. Stuber, "Velocity adaptive handoff algorithms for microcellular systems", IEEE transactions on vehicular technology, vol 43, N, 3.	
		E. Karastergios, M.A.K. Sumanasena and B,G, Evans, "Mobile velocity estimator for Ricean fading channels", Electronics letters, 5 th December 2002, Vol 38. No. 25.	
		Jian-Yu Lu, Xiao-Liang Xu, Hehong Zou, James Greenleaf, "Application of Bessel for Doppler Velocity Estimation:, IEEE transactions on ultrasonics, ferroelectrics, and frequency control, vol 42, N.4, July 1995.	
		R. Clarke " A Statistical theory of mobile radio reception", Bell System Tech Journal Vol. 47, pp 957-1000, 1968.	
		Rappaport, Wireless Communications, Principles and Practice , 2 nd Edition, ISBN 013-042232-0	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²Applicant is to place a check mark here if English Language Translation is attached.

